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Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet

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of

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<i>Complete if Known</i>	
Application Number	10/602,437
Filing Date	June 24, 2003
First Named Inventor	Michael J. Duffy et al.
Group Art Unit	3726
Examiner Name	Eric B. Compton
Attorney Docket Number	TPL 0132 PUS

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. PATENT DOCUMENT		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
		3,002,0011505A1		Cole et al.	01-31-2002	
		6,554,357 B2		Moffa	04-29-2003	
		6,499,786 B2		Takahashi	12-31-2002	
		6,481,800 B2		Duncan	11-19-2002	
		6,354,648 B1		Allan et al.	03-12-2002	
		6,234,572 B1		Shiino et al.	05-22-2001	
		6,155,618		Ichihose	12-05-2000	
		6,108,894		Mizuki et al.	08-29-2000	
		6,000,737		Yiu	12-14-1999	
		5,941,600		Mar et al.	08-24-1999	
		5,729,951		Frohlich	03-24-1998	
		5,215,342		Yuge et al.	06-01-1993	
		4,981,313		Makamura	01-01-1991	
		4,896,908		Kleefeldt	01-30-1990	
		3,912,315		Yamananaka	10-14-1975	
		3,705,738		Yoshimura	12-12-1972	
		2,583,806		Batzle	01-29-1952	
		1,690,408		Hasenflue	11-06-1928	
		1,647,992		Hartman	11-08-1927	

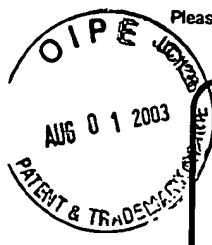
**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>				
		AU	43390779	Girlock Limited	05-26-1983		
		EP	0 694 436 A1	Lear Seating	01-31-1996		
		EP	1 197 378 A1	Daihatsu Motor	04-17-2002		
		EP	1 336 530 A2	DaimlerChrysler	02-10-2003		
		WO	03/070510 A1	Summo Steel Corp.	08-28-2003		

Examiner Signature	<i>Jean</i>	Date Considered	<i>2-16-05</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**  
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Sheet 1 of 2

**Complete if Known**

Application Number	10/602,438
Filing Date	Jun 23, 2003
First Named Inventor	Goldstein
Group Art Unit	2162
Examiner Name	Jean M. Cornelius
Attorney Docket Number	MS1-1467US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JM	✓	KATAYAMA, NORIO; SATOH, SHIN'ICHI; "The SR-Tree: An Index Structure for High-Dimensional nearest Neighbor Queries" April 1997; ACM Arizona, USA; pages 369-380	
JM	✓	GAEDE, VOLKER; GUNTHER, OLIVER; "Multidimensional Access Methods"; ACM Computing Surveys, Vol. 30, No. 2, June 1998; pages 170-231	
JM	✓	GOLDSTEIN, JOHNATHAN; RAMAKRISHNAN, RAGHU; "Contrast Plots and P-Sphere Trees: Space vs. Time in Nearest Neighbor Searches"; VLDB Conference, Cairo, Egypt, 2000; 12 pages	
JM	✓	BERCHTOLD, STEFAN; KEIM, DANIEL A.; KRIEGEL, HANS-PETER; "The X-tree: An Index for High-Dimensional Data"; VLDB Conference, Mumbai, India, 1996; pages 28-39	
JM	✓	HJALTASON, GISLI R.; SAMET, HANAN; "Ranking in Spatial Databases"; University of Maryland, pages 83-95	
JM	✓	FUNKHOUSER, THOMAS; MIN, PATRICK; KAZHDAN, MICHAEL; CHEN, JOYCE; HALDERMAN, ALEX; DOBKIN, DAVID; JACOBS, DAVID; "A Search Engine for 3D Models"; ACM Transactions on Graphics, Vol V., No. N; 28 Pages; 2002	
JM	✓	KRIEGEL, HANS-PETER; POTKE, MARCO; SEIDL, THOMAS; "Object-Relational Indexing for General Interval Relationships"; 21 pages; Germany, 2001	
JM	✓	KAMEL, IBRAHIM; FALOUTSOS, CHRISTOS; "Hilbert R-tree: An Improved R-tree Using Fractals"; VLDB Conference; Pages 500 - 509; Santiago, Chile; 1994	
JM	✓	HELLERSTEIN, JOSEPH M.; NAUGHTON, JEFFREY F.; PFEIFFER, AVI; "Generalized Search Trees for Database Systems"; VLDB Conference; Pages 562 - 573; Zurich, Switzerland; 1995	
JM	✓	O'NEIL, PATRICK; QUASS, DALLAN; "Improved Query Performance with Variant Indexes"; SIGMOD 1997; Pages 38 - 49; Arizona	
JM	✓	GUTTMAN, ANTONIN; "R-trees: A Dynamic Index Structure for Spatial Searching" ACM; Pages 47-57; 1984	

Examiner Signature	Jean Cornelius	Date Considered	2-16-05
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

**Complete if Known**

Application Number	10/602,438
Filing Date	Jun 23, 2003
First Named Inventor	Goldstein
Group Art Unit	2162
Examiner Name	Jean M. Correia
Attorney Docket Number	M51-1467US

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials'	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>JM</i>	✓	WEBER, ROGER; SCHEK, HANS-J.; BLOTT, STEPHEN; "A Quantitative Analysis and Performance Study for Similarity-Search Methods in High-Dimensional Spaces"; VLDB Conference; Pages 194-205; 1998; New York, USA	
<i>JM</i>	✓	BURGES, CHRISTOPHER J.C.; PLATT, JOHN C.; JANA, SOUMYA; "Extracting Noise-Robust Features from Audio Data" IEEE; Pages I-1021 to I-1024; 2002	
<i>JM</i>	✓	BEYER, KEVIN; GOLDSTEIN, JOHNATHAN; RAMAKRISHNAN, RAGHU; SHAFT, URI; "When is 'Nearest Neighbor' Meaningful?"; 19 Pages; Madison, Wisconsin, USA	
<i>JM</i>	✓	RUI, YONG; HUANG, THOMAS S.; and CHANG, SHIH-FU; "Image Retrieval: current Techniques, Promising Directions and Open Issues" Journal of Visual Communications and Image Representation, Vol. 10, No. 4, 1999; 17 pages	
<i>JM</i>	✓	PAGEL, BERND-UWE; KORN, FLIP; and FALOUTSOS, CHRISTOS; "Deflating the Dimensionality Curse Using Multiple Fractal Dimensions"; pages 1-10, ICDE 2000	
<i>JM</i>	✓	H. EDELSBRUNNER; MAURER, H.A.; "On the Intersection of Orthogonal Objects"; Information Processing Letters, v13, n4 & 5; North Holland, August, 1981; pages 177-181	
<i>JM</i>	✓	BROMLEY, J.; BENTZ, J.W.; BOTTOU, L.; GUYON, I.; LECUN, Y.; MOORE, C.; SACKINGER, E.; SHAH, R.; "Signature Verification Using a 'Siamese' Time Delay Neural Network"; Advances in Neural Processing Systems, v6; 1994; pgs 25-44	
<i>JM</i>	✓	O'NEIL, PATRICK; "Model 204 Architecture and Performance"; High Performance Transaction Systems Workshop; September 1987; pages 40-59	

Examiner Signature	<i>Jean M. Correia</i>	Date Considered	2-16-05
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